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NIPPON STEEL CHEM CO LTD

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TAKIGAWA KENJI

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(54) PRODUCTION OF TAXANE COMPOUND BY TISSUE CULTURE OF TAXUS PLANT

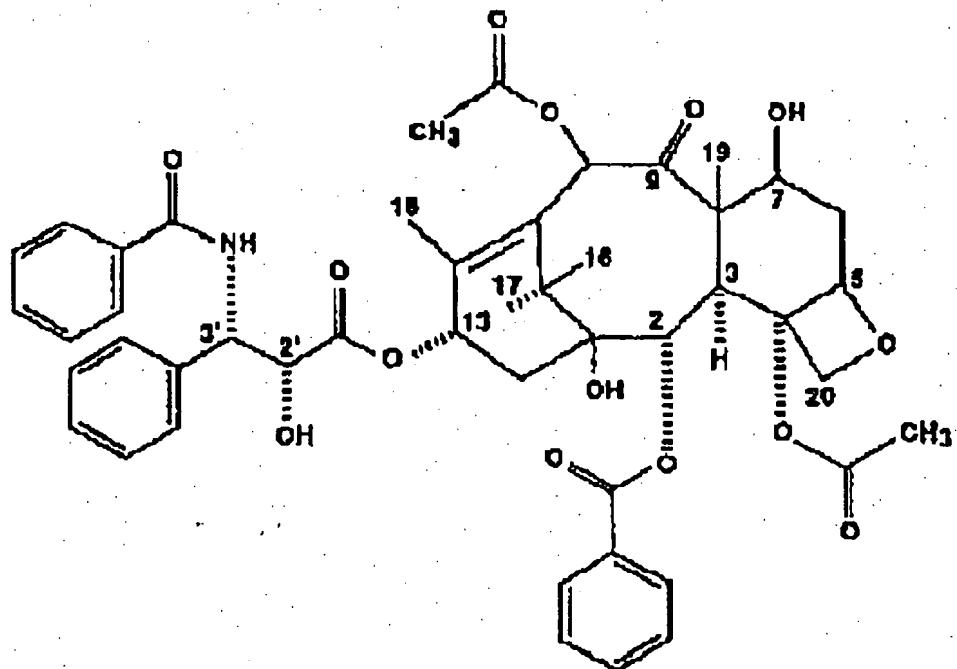
(57) Abstract:

PURPOSE: To stably and efficiently obtain a taxane compound useful for medicines (raw materials) such as an anticancer medicine excellent for the therapy of ovarian cancer, breast cancer, and lung cancer, etc., by subjecting the tissue of a Taxus species plant to a tissue culture treatment in a culture medium having a specific iodide ion concentration.

CONSTITUTION: A method for producing a taxane compound by the tissue culture of a Taxus species plant comprises immersing the current shoot of a Taxus species plant, such as *Taxus baccata*, belonging to the genus *Taxus* in a 1% antiformin solution for 20min, cutting the surface-sterilized current shoot into pieces having a length of approximately 5mm under an aseptic condition, placing the obtained pieces on a solid culture medium containing dibberellin as a plant hormone, leaving the pieces under the conditions of darkness and 20°C for 10 days, planting the induced callus

in a liquid culture medium containing ammonium iodide in an iodide ion concentration of 0.1-10mmol/L, subjecting the planted callus to a shaking culture treatment under the conditions of the darkness and 20°C for 30 days, and subsequently extracting the product from the cultured cells and the culture medium. Thus, the objective taxane compound of the formula, etc., and useful for anticancer medicines for ovarian cancer, breast cancer, lung cancer, etc., or for a raw material therefor can stably and efficiently be obtained.

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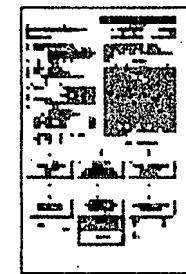
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